Features:

➢ Octave bandwidth, specification from 10~1200MHz
➢ Low noise figure, and high gain
➢ Low VSWR, unconditional stable
➢ Small size, low cost
➢ SMA female connector I/O
➢ Single DC power supply, internal voltage regulator, operating voltage from +10~+15V
➢ Operating temperature -40~+85°C, storage temperature -55~+125°C

Functional Diagram

Electrical Specifications

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>10 MHz</td>
<td></td>
<td>1200MHz</td>
</tr>
<tr>
<td>Noise Figure (from 50MHz)</td>
<td>2.5 dB</td>
<td>3.0 dB</td>
<td></td>
</tr>
<tr>
<td>P-1dB Compression Point</td>
<td>+10dBm</td>
<td>+12 dBm</td>
<td></td>
</tr>
<tr>
<td>Nominal SS Gain @25°C</td>
<td>37.0</td>
<td>40 dB</td>
<td>43.0 dB</td>
</tr>
<tr>
<td>Gain flatness</td>
<td>+/-1.0 dB</td>
<td>+/-1.25 dB</td>
<td></td>
</tr>
<tr>
<td>Gain Variation</td>
<td>+/-1.0 dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input VSWR</td>
<td>1.6:1</td>
<td>1.8:1</td>
<td></td>
</tr>
<tr>
<td>Output VSWR</td>
<td>1.6:1</td>
<td>1.8:1</td>
<td></td>
</tr>
<tr>
<td>Reverse Isolation</td>
<td>50 dB</td>
<td>55 dB</td>
<td></td>
</tr>
<tr>
<td>Spurious</td>
<td></td>
<td>-60 dBc</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C</td>
<td></td>
<td>+85°C</td>
</tr>
<tr>
<td>Survival Temperature</td>
<td>-55°C</td>
<td></td>
<td>+125°C</td>
</tr>
<tr>
<td>DC Voltage</td>
<td>+10V</td>
<td>+12 V</td>
<td>+15 V</td>
</tr>
<tr>
<td>DC Supply Current</td>
<td>85 mA</td>
<td>100 mA</td>
<td>115 mA</td>
</tr>
<tr>
<td>In/Out connectors</td>
<td></td>
<td>SMA female</td>
<td></td>
</tr>
<tr>
<td>Size</td>
<td>1.5”x0.85”x0.375</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Mechanical Structure:

Absolute Maximum Ratings

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Voltage</td>
<td>+15V</td>
</tr>
<tr>
<td>RF Input Power</td>
<td>+10dBm</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-55°C to +125°C</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C to +85°C</td>
</tr>
</tbody>
</table>

Note: All units in inches.